BBA

Biomembranes

Vol. 1146, 1993

Cumulative Contents

Regular Papers

Biophysical and biochemical alterations of renal cortical membranes in diabetic rat
L.S. Ramsammy, C. Boos, C. Josepovitz and G.J. Kaloyanides (USA) 1

Ceramide excluded from cell-free vesicular lipid transfer from endoplasmic reticulum to Golgi apparatus. Evidence for lipid sorting
P. Moreau, C. Cassagne, T.W. Keenan and D.J. Morré (France, USA) 9

Thermodynamic characterization of the association of small basic peptides with membranes containing acidic lipids
G. Montich, S. Scarlata, S. McLaughlin, R. Lehrmann and J. Seelig (USA, Switzerland) 17

Sodium transport by an ionizable and a neutral mobile carrier: effects of membrane structure on the apparent activation energy
G. Vareille, P. Marion, J.-L. Kraus and M. Castaing (France) 25

The cation receptor subsite of the choline transporter in preimplantation mouse conceptuses resembles a cation receptor subsite of several amino acid transporters
L.J. Van Winkle, A.L. Campione, D.F. Mann and H.G. Wasserlauf (USA) 38

FTIR spectroscopic analysis of the amide and acid bands of ganglioside G_{M1}, in pure form and in mixtures with DMPC
E. Mueller and A. Blume (Germany) 45

Cibacron blue-induced enhancement of agonist binding to cholecystokinin (CCK) receptors in solubilized pancreatic membranes
D.S. Yuan, S.A. Wank and J.D. Gardner (USA) 52

Structure–activity relations of amiloride derivatives, acting as antagonists of cation binding on Na^+/K^+-ATPase
P. David, H. Mayan, E.J. Cragoe, Jr. and S.J.D. Karlish (Israel, USA) 59

The effects of lipids and detergents on ATPase-active P-glycoprotein
C.A. Doige, X. Yu and F.J. Sharom (Canada) 65

The site of acid secretion in the mammalian parietal cell
D.R. Scott, H.F. Helander, S.J. Hersey and G. Sachs (USA, Sweden) 73

Regulatory volume decrease in Ehrlich ascites tumor cells is not mediated by a rise in intracellular calcium
R.J. Thomas-Young, T.C. Smith and C. Levinson (USA) 81

Quantitative measurement of cationic fluxes, selectivity and membrane potential using liposomes multilabelled with fluorescent probes
K. Venema, R. Gibrat, J.-P. Grouzis and C. Grignon (France) 87

Role of the protonmotive force and of the state of the lipids in the in vivo protein secretion in *Corynebacterium glutamicum*, a Gram-positive bacterium
N. Bayan, S. Schrempp, G. Joliff, G. Leblon and E. Shechter (France) 97

Characterization of proton transport in bone-derived membrane vesicles
J.P. Mattsson, P. Lorentzon, B. Wallmark and D.J. Keeling (Sweden) 106

Mechanism of uptake of the fluorescent dye 2-(4-dimethylaminostyryl)-1-ethylpyridinium cation (DMP^+) by phospholipid vesicles
E.G. Sedgwick and P.D. Bragg (Canada) 113

The transport mechanisms of organic cations and their zwitterionic derivatives across rat intestinal brush-border membrane. 1. Binding characteristics to the bio- and lipid-membranes
K. Iseki, M. Sugawara, N. Saitoh and K. Miyazaki (Japan) 121

Perturbation of the chain melting transition of DPPC by galactose, agarose and Laurdan as determined by differential scanning calorimetry
S.B. Abrams and P. Yager (USA) 127

Use of merocyanine (MC540) in quantifying lipid domains and packing in phospholipid vesicles and tumor cells
W. Stillwell, S.R. Wassall, A.C. Dumaual, W.D. Ehringer, C.W. Browning and L.J. Jenski (USA) 136

Uric acid transport in rat renal basolateral membrane vesicles
C.A. Polkowski and S.M. Grassl (USA) 145

Rapid Report

Electron diffraction study on two-dimensional domain structure of L-DPPC monolayer
S. Sakurai, I. Sakurai, Y. Kawamura and T. Nakaya (Japan) 153

Regular Papers

Molecular mechanism of the lipid vesicle longevity in vivo
G. Blume and G. Cevc (Germany) 157

Gel state surface properties of phosphatidylcholine liposomes as measured with merocyanine 540
D.L. Bernik and E.A. Disalvo (Argentina) 169

Archaebacterial lipids: highly proton-impermeable membranes from 1,2-diphytanyl-*sn*-glycero-3-phosphocholine
K. Yamauchi, K. Doi, Y. Yoshida and M. Kinoshita (Japan) 178

A nucleotide-regulated Cl^-/OH^- anion exchanger in endoplasmic reticulum-enriched pig pancreatic microsomes
B. Bégault and A. Edelman (France) 183

^{23}Na-NMR study of ion transport across vesicle membranes facilitated by phenylalanine analogs of gramicidin
J.F. Hinton, P.L. Easton, D.K. Newkirk and D.C. Shungu (USA) 191

Characteristics of organic cation transporter in rat renal basolateral membrane
T. Katsura, M. Takano, Y. Tomita, M. Yasuhara, K.-i. Inui and R. Hori (Japan) 197

The expression of the Na^+/glucose cotransporter (SGLT1) gene in lamb small intestine during postnatal development
T.C. Freeman, I.S. Wood, D.J.S. Sirinathsinghji, R.B. Beechey, J. Dyer and S.P. Shirazi-Beechey (UK) 203

Folding and dynamics of melittin in reversed micelles
E. Bismuto, I. Sirangelo and G. Irace (Italy) 213

Influence of lipid lateral distribution on the surface charge response of the phosphatidylcholine headgroup as detected using ^{2}H nuclear magnetic resonance
F.M. Marassi, S. Djukic and P.M. Macdonald (Canada) 219

Effects of L-carnitine and its acetate and propionate esters on the molecular dynamics of human erythrocyte membrane
A. Arduini, N. Gorbunov, E. Arrigoni-Martelli, S. Dottori, F. Molajoni, F. Russo and G. Federici (Italy) 229

Abnormal fatty acid composition in sarcolemma and sarcoplasmic reticulum from myotonic ADR mouse muscle
D.L. Birkle, V. Shahamat, J. Lucci, E.A. Johnson, J.E. Riggs and A.J. Azzaro (USA) 236

Regulated expression of intrinsic factor-cobalamin receptor by rat visceral yolk sac and placental membranes
K.S. Ramanujam, S. Seetharam and B. Seetharam (USA) 243

Curvature dependent induction of the interdigitated gel phase in DPPC vesicles
L.T. Boni, S.R. Minchey, W.R. Perkins, P.L. Ahl, J.L. Slater, M.W. Tate, S.M. Gruner and A.S. Janoff (USA) 247

Cryotoxicity of antifreeze proteins and glycoproteins to spinach thylakoid membranes – comparison with cryotoxic sugar acids
D.K. Hincha, A.L. DeVries and J.M. Schmitt (Germany, USA) 258

Evidence for the lumenal location of the 53 kDa glycoprotein of sarcoplasmic reticulum
I. Matthews, A.M. Mata, A.G. Lee and J.M. East (UK) 265

Kinesin is rapidly transported in the optic nerve as a membrane associated protein
P.J. Morin, R.J. Johnson and R.E. Fine (USA) 275

The mode of action of primary bile salts on human platelets
Y.-J. Shiao, J.-C. Chen, C.-N. Wang and C.-T. Wang (Taiwan) 282

Translocation of fluorescent ether phospholipid, but not its diacyl counterpart, after insertion in plasma membranes of control and plasmalogen-deficient fibroblasts
E. Van der Veer, D. Van der Weide, H.S.A. Heijmans and D. Hoekstra (The Netherlands) 294

Rapid Report

Interaction of the yeast phosphatidylserine transfer protein with artificial and biological membranes
B. Gaigg, G. Lafer, F. Paltauf and G. Daum (Austria) 301

Cumulative Contents, Vol. 1146 305

Author Index 307